Figure 1. Multi-Line ADSL Modem shares multi-pair telephone lines.
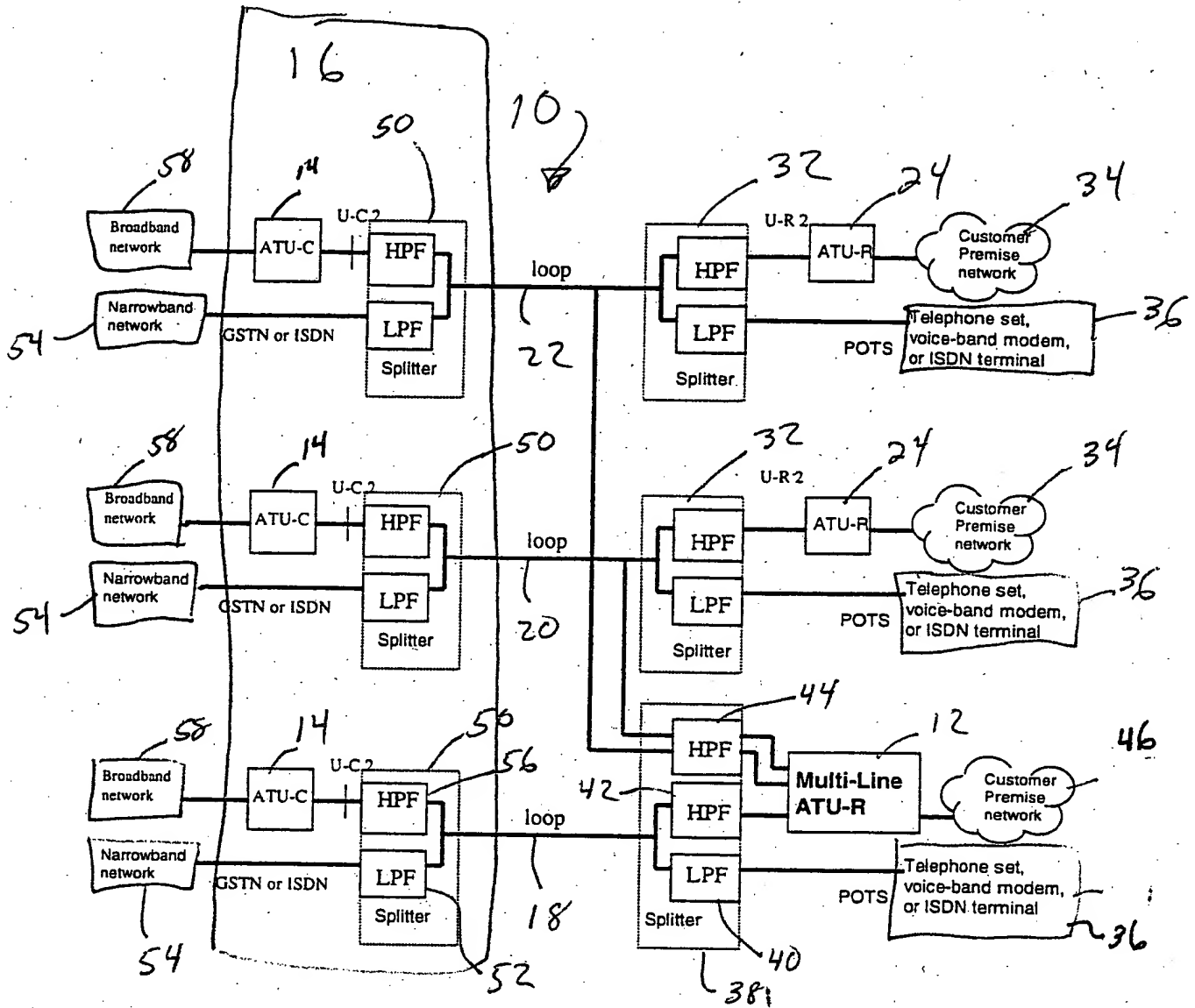
16

50

10

58 14 U-C2 32 24 34

Broadband network ATU-C HPF loop HPF U-R 2 ATU-R Customer Premise network

Narrowband network LPF LPF Telephone set, voice-band modem, or ISDN terminal 36

GSTN or ISDN Splitter 22 Splitter POTS

54

58 14 50 32 24 34

Broadband network ATU-C U-C2 HPF loop HPF U-R 2 ATU-R Customer Premise network

Narrowband network LPF LPF Telephone set, voice-band modem, or ISDN terminal 36

GSTN or ISDN Splitter 20 Splitter POTS

54

44 12 46

58 14 56 HPF Multi-Line ATU-R Customer Premise network

Broadband network ATU-C U-C2 56 HPF 42 HPF

Narrowband network LPF loop LPF Telephone set, voice-band modem, or ISDN terminal

GSTN or ISDN Splitter 18 Splitter POTS 36

54 52 38 40

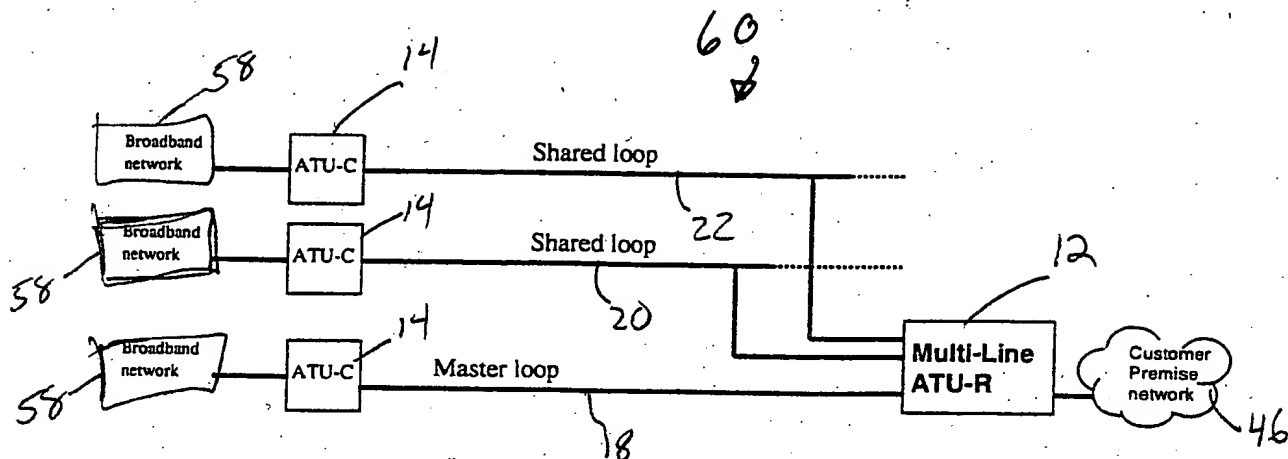Figure 2. Multi-Line ADSL system

Figure 3. Single-User Model with Multi-Line ADSL
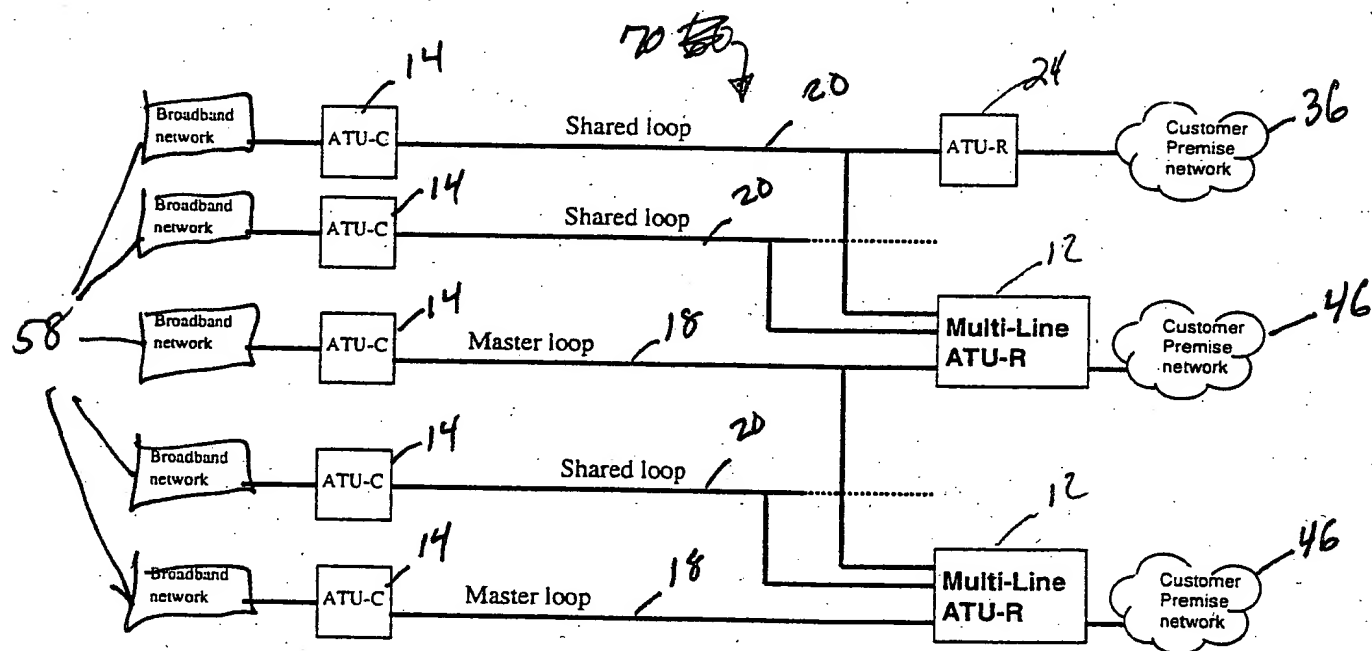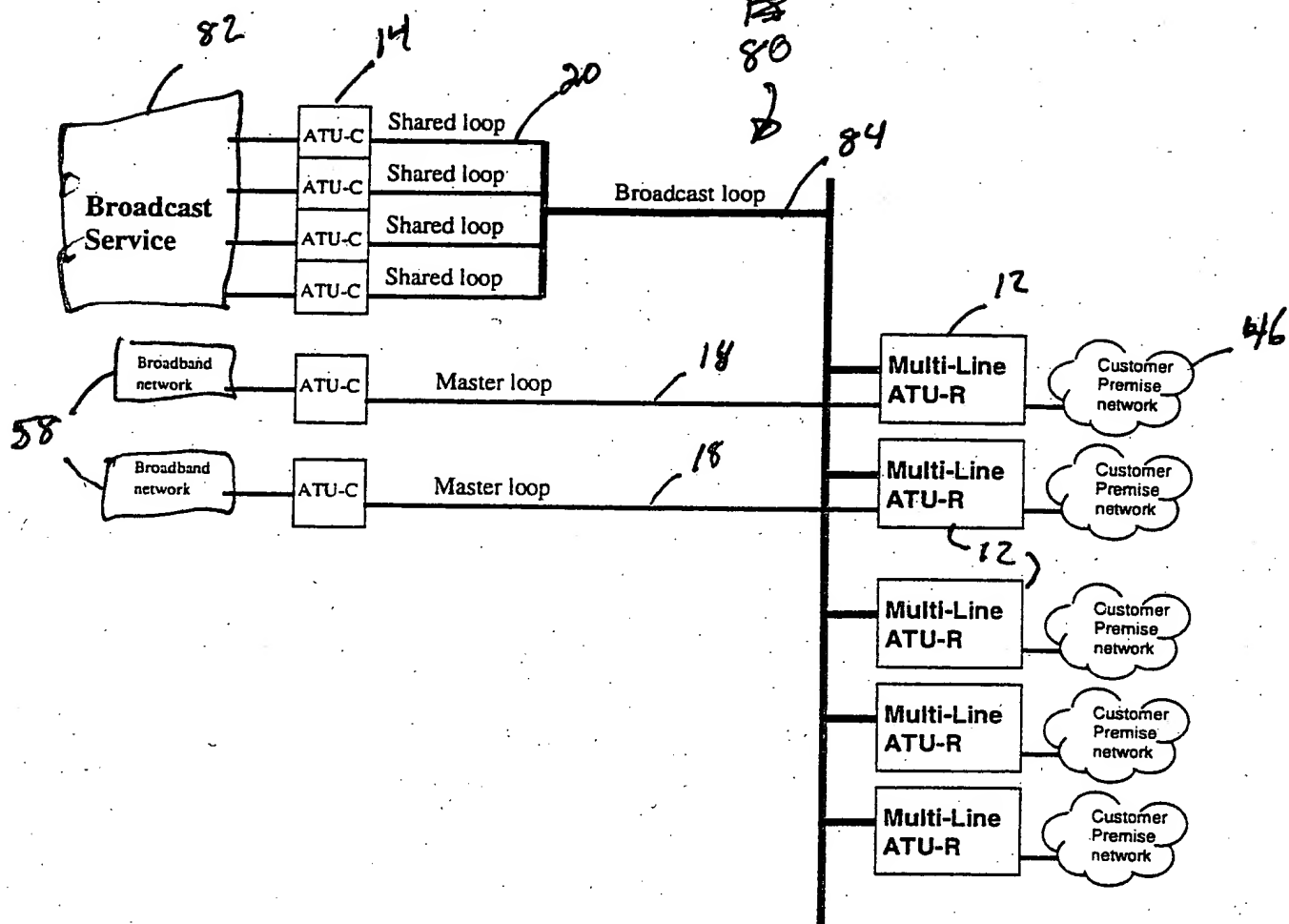

Figure 4. Multi-user Model with Multi-Line ADSL

Figure 5. Broadcast Model with Multi-Line ADSL